Macrolepidoptera and Microlepidoptera (Alucitidae and Pyralidae) recorded in Bulgaria, 12 - 24 September 1995 (Lepidoptera)

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Introduction

During the period September 12-24, 1995 the authors visited several places in SW Bulgaria, East Rhodopi Mts and Black Sea Coast where the lepidopterous fauna was explored. On September 12, a few moths were collected at a 125 W Hg lamp on the balcony of the home of the first of the authors in Sofia, Mladost IV. H.E. In all the other localities given below, moths were collected using a 160 W Hg lamp plugged in, or powered by a Honda EX 350 generator, and by means of a red wine and sugar 1:1 mixture painted on tree trunks. Several species were also found aestivating in tunnels, one in Kresna Gorge and another in Melnik Town, and a few were recorded by day. Nearly all Pyralidae were determined by B. Goater with only a few additions made by S. Beshkov, Alucitidae were identified by S. Beshkov. The only species of Psychidae was determined by P. Hattenschwiler (Uster, Switzerland). All Macrolepidoptera were identified by both authors together, mostly in the field, except for the specimens determined later by examination of genitalia. The identity of all the doubtful species was checked in this way. Only a minimal number specimens were retained, but lists were made of all species seen. The collected material is in the collections of the two authors. Below are included all the data gathered during the expedition. Only a few species of butterflies are listed because public transport (trains and buses) was used for getting about and most of the daylight hours were spent traveling or waiting for transport in a town.

List of the main collecting localities

Kresna - SW Bulgaria, Kresna Gorge, Stara Kresna Railway Station, 200 m alt., 13.IX.1995.

Melnik - SW Bulgaria, Melnik Town, Sandanski District, 400 m alt., 14.IX.1995. Rozhen - SW Bulgaria, Rozhen Village above Melnik Town, 580 m alt., 15.IX.1995.

Studen Kladenetz - East Rhodopi Mts, Studen Kladenetz Village, Arda Valley, 180 m alt., 18.IX.1995.

Momina Skala - East Rhodopi Mts, Arda Valley, Momina Skala Chalet near Madzharovo Town, 140 m alt., 19.IX.1995.

Meden Buk - East Rhodopi Mts, Zhaltichalsko Dere near Byala Reka River by Meden Buk Village, Ivailovgrad District, 150 m alt., 20.IX.1995.

Byalo Pole (= Belopolyane Village) - East Rhodopi Mts, Ivailovgrad District, 180 m alt., 21.IX.1995.

Arkutino - South Black Sea Coast, "Arkutino" Resting House near Arkutino Swamp and the Mouth of Ropotamo River, Primorsko District, 22.IX.1995.

Balchik - (= Balcic) - North Black Sea Coast, Belia Bryag Camping between Balchik and Kavarna towns, 2 km NE from "Tuzlata", 23.IX.1995.

Leucania punctosa (Treitschke, 1828) is new for the Bulgarian fauna. In the list are included 262 species.

In Belia Bryag Camping many species, most of them in considerable numbers, were observed under a *Prunus divariacata* Ldb. tree, feeding on the secretions of the aphid *Pterochloroides persicae* (Chol., 1899), from the family *Lachnidae* (E. Tasheva det.), dropped from the tree. Moths were much more numerous beneath that tree than on the trees which had been anointed with wine-sugar mixture. The species recorded on aphid secretion were: *Udea ferrugalis*, *Nomophila noctuella*, *Camptogramma bilineata*, *Lygephila craccae*, *Hoplodrina ambigua*, *Thalpophila matura*, *Phlogophora meticulosa*, *Atethmia ambusta*, *Discestra trifolii*, *Leucania putrescens*, *Mythimna albipuncta*, *Mythimna vitellina*, *Mythimna l-album*, *Acantholeucania loreyi*, *Noctua pronuba*, *Xestia xanthographa*, *Peridroma saucia*, *Agrotis puta*, *Agrotis ipsilon*, *Agrotis segetum*.

Abbreviations used in the list:

- L specimen/s collected at light
- S specimen/s collected at red wine and sugar 1:1 mixture
- D collected or observed by day
- R collected at rest on lamps in or around buildings
- s single specimen
- r rare species, 2-3 specimens recorded
- c common species, 4-10 specimens recorded
- a abundant, more than 10 specimens recorded

Table 1 List of the species

	Kresna	Melnik	Rozhen	Kresna Melnik Rozhen Studen Momina Meden	Momina	Meden	Byalo	Byalo Arkutino Balchik	Balchik	Note
Names of the taxa				Kladenetz Skala	Skala	Buk	Pole			
	1	61	က	4	5	9	7	8	6	10
HEPIALIDAE	0	0								
Triodia amasinus dobrogensis (Caradja, 1932)				Ľ,a	L,r	L,s			L,c	1
= Korscheltellus amasinus ponticus Car.										
sensu Popescu-Gorj, 1964										61
Triodia silvina (Linnaeus, 1761)	L,s	Γ	L,s	L,r	Ľ,s	L,s	L,s			ಣ
PSYCHIDAE										
Eochorica balcanica (Rebel, 1919)		L,a								₹
ALUCITIDAE										
Alucita grammodactyla Zeller, 1841	L,s									2
Alucita cymmatodactyla Zeller, 1852									L,s	9
PYRALIDAE										
Euchromius ocellea (Haworth, 1811)								L,s	L,c	7
Agriphila tristella										
([Denis & Schiffermüller], 1775)			R,s						R,s	œ
Agripgila inquinatella										
([Denis & Schiffermüller], 1775)				L,s		L,s				6
Agriphila brionella (Zerny, 1914)	D,r;L,s	L,r								10
Agriphila latistria (Haworth, [1811])						L,r		L,s		
Agriphila dalmatinella (Hampson, 1900)	D,L,r	L,r		L,c					L,s	11
Pediasia matricella (Treitschke, 1832)	L,c			L,c		L,r				
Catoptria confusella (Staudinger, 1882)				Ľ,r	Ľ,r	L,s	L,r			
Ancyloloma palpella										
([Denis & Schiffermüller], 1775)	L,s	L,r								
Ancylolomia tentaculella (Hübner, 1796)			L,s			L,r				
Eudonia mercurella (Linnaeus, 1758)				L,s						
Evergestis limbata (Linnaeus, 1767)								L,s		
Evergestis serratalsi (Staudinger)				L,s	L,c	L,c	L,r			

Aporda's floralis (Hibner, 1989) Lis Aborda's floralis (Hibner, 1881) Purausia aurata (Scopoli, 1783) Purausia surata (Scopoli, 1783) Purausia surata (Scopoli, 1783) Ly Purausia aurata (Scopoli, 1783) Ly Chinogolia Miller, 1786) Ly Chinogolia Miller, 1786) Ly Charles & Schiffermiller, 1775) Ly Ly Ly Ly Ly Ly Ly Ly Ly L			2	3	4	2	9	7	80	6	10
58) L,s L	Aporodes floralis (Hübner, [1809]) Hellula undalis (Fabricius, 1781)		L,s				L,s	Ļs			
1767) 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Purausta aurata (Scopoli, 1763)		F					L,s			
häffer) Lyr Lys Lys Lys Lys Lys Lys Lys	ryrausta purpurats (Linnaeus, 1758) Pyrausta sanguinalsi (Linnaeus, 1767)	r,s	L's				L's		L,s		
1, 1796) Ly L, L, S häffer) Ly L, S häffer) D, S L, T L, S 1, S 1, S 29) L, T L, S 1, S 29) L, S 1, S 29) L, S 20) L, S 21) L, S 22) L, S 23) L, S 24) L, S 25) L, S 26) L, S 27) L, S 28) L, S 29) L, S 20) L, S 20) L, S 20) L, S 20) L, S 21) L, S 22) L, S 23) L, S 24) L, S 25) L, S 26) L, S 27) L, S 28) L, S 29) L, S 20) L, S L,	ascialis (Toll, 1936)							L,c			
hiaffer) Lis Lis Lis Lis Lir	biginalis (Hübner, 1796)		L,s		L,s			L,s			
highfer) Li,s Li,s Li,s Li,s Li,s Li,r Li,s Li	Paracorsia repandalis										
häffer) Li, S Li, S Li, C Li, Li, C Li,	([Denis & Schiffermüller], 1775)	L,r	L,s		L,s						
häffer) D,s L,r L,r L,r L,r L,r L,r L,r L	Ostrinia nubilalis (Hübner, 1796)	L,s						Ľs			
D,s L,r	Euclasta splendidalis (Herrich-Schäffer)		L,s								
1. L., L., L., L., L., L., L., L., L., L.		D,s									
19) L,s	Udea ferrugalis (Hübner, 1796)	L,r	L,r			L,r	L,r	Lr	L.s	L.S.S.r	12
19, L,s L,s L,s L,s L,s L,s L,s L,s L,s L,	Nomophila noctuella							Ì	î		!
19) L,r L,r L,r L,r L,r L,s	([Denis & Schiffermüller], 1775)	L,s			L,r	L.s	L's	L.s	Ls	S.S.S.	13
1) L,r L,r L,r L,s	Antigastra catalaunalis (Duponchel, 1833)					`	ŗ	Ľc			
L,r L,r L,s	Metasia ophialis (Treitschke, 1829)	L,r						`			
175) 175) 175) 176) 177) 178 178 179 179 179 179 179 179 179 179 179 179	Pleuroptya ruralis (Scopoli, 1763)	L,r	L,r		L,r		L,s	L,r			
175) 175) 175) 175) 175) 177) 178 179 179 179 179 179 179 179 179 179 179	Palpita unionalis (Hübner, 1796)			L,s	L,s	L,s	L,s	L's			
75) 175) 175) 175) 175) 175) 175 175 175 175 175 175 175 175 175 175	Palpita incoloralis (Guenée, 1854)					L,s		`			
329) D,r L,r 29) L,r 6l, 1834) L,r 8l,r 7) L,s R,r 83) L,s L,s L,s 9) L,s L,s L,s 1,r L,s L,s 1,r L,s L,s 1,r L,s 1,r L,s 1,r L,s 1,r L,s 1,s	Hypsopygia costalis (Fabricius, 1775)							L,s			
29) el, 1834) L,r R,r S) L,r R,r S) L,r L,s L,s L,s L,s L,s L,s L,s	Actenia brunnealis (Treitschke, 1829)	D,r	L,r								
el, 1834) L,r R,r R,r S) L,s R,r S) L,s L,s L,s L,s L,s L,s L,s L,s L,s L,s L,s L,r L,s L,s L,r L,s L,s L,r L,s L,s	Actenia honestalis (Treitschke, 1829)								L.s		
b) L,s R,r R,r S,s	Orthopygia fulvocilialis (Duponchel, 1834)	Ľ,									
(s) L,s R,r R,r (s) (s) L,s L,s L,s L,s L,s L,s L,s L,s L,s L,r L,s											
8,r (i) L,r L,s	hiffermüller], 1775)	L,s									
(s) L,r L,s	s (Linnaeus, 1758)		R.r							ď	14
L,r L,s L,s L,s L,s L,s L,r L,s L,r L,s L,r L,s	nealis									that	ŗ
L,s L,r L,s L,r L,s L,r L,s L,r L,s L,r L,s	hiffermüller], 1775)	L,r	L,s				L.s				
L,r L,s L,r L,s L,s L,r	tbella (Scopoli, 1763)	L,s					`				
L,r L,r L,s	Bradyrrhoa gilveolella (Treitschke)				L,s		L.r	Ls			15
	lla (Treitschke, 1832)		L,r				L,r	ì		L,s	i

1	2	3	7	5	9	7	8	6	10
Oxybia transversella (Duponchel, 1836)	L,r					L,s			
Convocation 1: Spaniant (Tachtres, 1136) Trachycera advenda (Zincken, 1818) Spermatonbibora borniaii (Ladora, 1859)	Ľ,s			ų,				E	
Phycitodes albatella (Ragonot, 1887)							L,s	n,r, L,s	
Cadra furcatella (Herrich-Schäffer, 1849) PAPILIONIDAE	L,r								16
Iphiclides podalirius (Linnaeus, 1758)									17
Papilio machaon Linnaeus, 1758 PIERIDAE									18
Pieris rapae (Linnaeus, 1758)					D,c				
Pontia edusa (Fabricius, 1777)	D,c	D,a			D,c				
Colias crocea (Geoffroy, 1785)	D,c			D,c	D,c				
NYMPHALIDAE									
Nymphalis polychloros (Linnaeus, 1758)	ದ								19
Inachis io (Linnaeus, 1758)									20
Pandoriana pandora									
([Denis & Schiffermüller], 1775)	D,a	D,c		D,c					21
Issoria lathonia (Linnaeus, 1758)	D,c				D,c				
Hipparchia syriaca (Staudinger, 1871)	D,r	D,c	D,r	D,r	D,r				
Hipparchia senthes (Fruhstorfer, 1908)		D,c							
Hipparchia fatua (Freyer, 1845) LYCAENIDAE			D,r		D,r				
Lycaena phlaeas (Linnaeus, 1761)	D,c	D,c	D,c						
Polyammatus icarus (Rottemburg, 1775) DREPANIDAE			D,r						
Drepana binaria (Hufnagel, 1767)			L,c	L,s	L,s				22
Cilix glaucata (Scopoli, 1763) L,s THYATIRIDAE	L,s				L,s		L,s		
Thyatira batis (Linnaeus, 1758)							L,s		
Cymatophorima diluta				-					
([Compared manual) 1110)				L,3					

10		23		25 26
6	L,s R,s	r, r	L, s R, s, S, s	L,s
8	L,r	L,s L,s		
7	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	L,s	L,s	L's
9	, ', ', ',	L,s		
5	L,s	L,s L,r L,s	L,s	
+	L,s L,r L,r L,s	L,s		
3	L,s			
2	L,s L,s L,r L,s	L, s L, s L, s L, s	L,s L,s	L,T
1	L,s L,s	L,s L,r		L,r L,r
	GEOMETRIDAE Hemiheinae Hemistola chrysoprasaria (Esper, 1794) Euchrostes indiginata (de Villers, 1789) Sterrhinae Cyclophora puppillaria (Hübner, [1799]) Timandra griseata W. Petersen, 1902 Scopula ochraceata Staudinger, 1901 Scopula imitaria (Hübner, [1791]) Scopula imitaria (Hübner, [1791])	Glossotrophia confinaria (Herrich-Schäffer, 1847) Idaea filicata (Hübner, [1799]) Idaea dimidiata (Hufnagel, 1767) Idaea camparia (Herrich-Schäffer, [1852]) Idaea aversata (Linnaeus, 1758) Idaea degeneraria (Hübner, [1799]) Rhodometra sacraria (Linnaeus, 1767)	Larentilnae Lythria purpuraria (Linnaeus, 1758) Cataclysme riguata (Hübner, [1813)] Xanthorhoe fluctuata (Linnaeus, 1758) Epirrhoe galiata ([Denis & Schiffermüller], 1775) Costaconvexa polygrammata (Borkhausen, 1794) Camptogramma bilineata (Linnaeus, 1758) Catarhoe permixtaria	(Herrich-Schaffer, 1851) Cosmorhoe ocellata (Linnaeus, 1758) Nebula ablutaria (Boisduval, 1840) Colostygia sp. Horysme corticata (Treitschke, 1835)

10		27 28 29	e e		31			33	34
6	R.r.		v.						L,s;S,s
so l	L,s	L,s							L,s;S,s
7	J &	L's	L.s			L,r	L,c L,s	L,r L,c	L,r L,r
9			L,s				L's L's	L,s L,r	Lr.
5		v.						Ľ,r	Ľ,r
-+	L's		L,s					Ľ,s	L's
3					L,s				L,s;S,s
2				L's					L,s L,r
1	L's	L.r	D,r	L,s	775) L,s	L,s		L,r L,r	L,r L,r
	Perizona bifaviata (Haworth, 1809) Eupithevia linariata ([Denis & Schiffermüller], 1775) Eupithevia variostrigata Alpheraky, 1878 Eupithevia centaurvata ([Denis & Schiffermüller], 1775)	Eupithecia innotata (Hufnagel, 1767) Eupithecia ochridata Pinker, 1968 Eupithecia orphnata W. Petersen, 1909 Eupithecia orphnata W. Petersen, 1909	Eupineeta enceata namon, 1959 Gymnosceles rufffasciata (Haworth, 1809) Minoa murinata (Scopoli, 1763)	Aplacera pagnara (Emissas, 1795) Aplacera derranaria von Mentzer, 1981 Boarmilnae	Ligdia adustata ([Denis & Schiffermüller], 1775) L.s. Semiothisa alternaria (Hübner, [1809]) Tephrina arenacearia ([Denis & Schiffermüller], 1775)	Artora evonymaria ([Denis & Schiffermüller], 1775) Ennomos erosaria ([Denis & Schiffermüller], 1775)	Ennomos fuscantaria (Haworth, 1809) Eumera regina Staudinger, 1892 Crocallis tusciaria (Borkhausen, 1793)	Crocallis elinguaria (Linnaeus, 1758) Nychiodes dalmatina (Wagner, 1909) Nychiodes waltheri (Wagner, 1919) Peribatodes rhomboidaria	([Denis & Schiffermuller], 1775) Peribatodes umbraria (Hübner, [1809])

10	35			36	37		38							39 40	
6		L,r	R,r;L,r	R,r;L,s		L,s		L,s						L,r	
8			L,s L,r											L,r	
7	Ľ,r	L,s	L,r	L,r	L,c	L,r	ν <u>.</u>	L,s	L,s		L,a		L,s	L,c	L,s
9	L,r	Ľ,r	L,s		L,c						L,r			ı, ı	†
5	L,c		L,s	L,r	L,c	L,r						L,s		L,c	L,s
7	L,r	L,s	L,s L,r	L,r	L,r		S.	D,c			L,s			L,r	L,s
3		L,s			L,r				L,s					<i>y</i>	L'r
2		L,s			L,r			D,r		L,s	L,s		L'r	L,r	
1	L,r	L,r	L,r D,c;L,r		L,r							Ľ,s	Ľ,r	L,s	L's
	Peribatodes correptarius (Zeller, 1847)	Grandseina pumartum ([Denis & Schiffermüller], 1775) Grophos sartatus Treitschke, 1827	1767)	Dyscia sicanaria Zeller, 1852 LASIOCAMPIDAE	Lasiocampa trifolii ([Denis & Schiffermüller], 1775) LEMONIIDAE	Lemonia balcanica (Herrich-Schäffer, 1843) SPHINGIDAE	Agrius convolvuli (Linnaeus, 1758) Hules euphorbiae (Linnaeus, 1758)	Macroglossum stellatarum (Linnaeus, 1758) NOTODONTIDAE	Pterostoma palpinum (Clerck, 1759) Clostera pygra (Hufnagel, 1766) THAUMETOPOEIDAE	Thaumetopoea pityocampa ([Denis & Schiffermüller], 1775)	Thaumetopoea solitaria (Freyer, 1838) LYMANTRIIDAE	Lymantria dispar (Linnaeus, 1758) Sphrageidus similis (Fuessly, 1775) ARCTIIDAE	Eilema sororcula (Hufnagel, 1766) Eilema morosina (Herrich-Schäffer, 1848)	Eilema caniola (Hübner, [1808]) Eilema pseudocomplana (Daniel. 1939)	Phragmatobia fuliginosa (Linnaeus, 1758) Euplagia quadripunctaria (Poda, 1761)

	1	2	3	+	5	9	7	8	6	10
CTENUCHIDAE Dysauxes famula pontica Friese, 1959	L,c	L,c	L,c	L,c	L,c	L,c	L,r		L,s	
NOCTUIDAE Herminlinae							ţ			
Orectis proboscidata (Herrich-Schäffer, [1851])					L,r	ī				
Polypogon plumigeralis (Hubner, [1825]) Rivulinae						S, S,				
Parascotia fuliginaria (Linnaeus, 1761)	L,s		S,s;L,s			L,s	L,s			
Hypenodinae Schrankia costaestrigalis (Stephens, 1834)							L,s	L,r		
Hypeninae										
Hypena rostralis (Linnaeus, 1758)		L,s;c								11
Cotocolo nunto (Tinnague 1767)	ت ب					U U	U.			
Catocala elocata (Esper, [1787])	3,	S,s	S,s	S,s		2,	L,s;S,s			
Catocala puerpera (Giorna, 1791)	S,s									
Grammodes bifasciata (Petagna, 1787)								L,r		
Prodotis stolida (Fabricius, 1775)				L,s		Ľ,r	S,s			
Lygephila craccae				,			c		Č	
([Denis & Schiffermüller], 1775)				L,s			S,s		s,s	
Apopestes spectrum (Esper, [1787])		S,s								Ç
Autophula ligaminosa (Eversmann, 1851) Tuta luctuosa		L								4.
([Denis & Schiffermüller], 1775)		L,s								
Nolinae										
Meganola strigula										
([Denis & Schiffermüller], 1775)	L,s									
Sarrothripinae							,			
Nycteola siculana (Fuchs, 1899)		L,s		-			L,s			
Nycteoid asiatica (Kruiikovsky, 1904) Chloephorinae				, 1						
Bena bicolorana (Fuessly, 1775)				L,s	L,s					43

500	1	2	3	7	22	9	1	80	6	10
Pseudoips prasinanus (Linnaeus, 1758) = P. Jaganus (Fabricius, 1781) Acronictinae Cruphia alone (Fabricius, 1775)					L,s					#
Cryphia ochsi Boursin, 1941 Cryphia rectilinea (Warren, 1909)	S,c;L,r L,s	S,s		s,s			•			
Cryphia seladona burgeffi (Draudt, 1931) Cryphia amasina (Draudt, 1931) Acontlinae	L.r			L,r L,s		L,s				45
Emmelia trabealis (Scopoli, 1763) Acontia lucida (Hufnagel, 1766) Acontia urania Frivaldsky, 1835		L,s		Ľ,s			L,s			9†
Eublemma ostrina (Hübner, [1808]) Metachrostis velox (Hübner, [1813) Physinae		L,s L,s					s,			
Euchalcia consona (Fabricius, 1787) Diachrysia chrysitis (Linnaeus, 1758) Macdunnoughia confusa (Stephens, 1850)							L,s	L,s		47
Autographa gamma (Linnaeus, 1758) Trichoplusia ni (Hübner, [1803]) Abrostola trpartita (Hufnagel, 1766) Abrostola agnorista Dufay, 1956	L,s L,s	L's		L,s		L's	L,s L,s L,s	Ľ, s	L,s;S,s	\$
Amphipyra pyramidea (Linnaeus, 1758) Amphipyra livida	L,s		S,s							6†
(L'Dellis & Schifferm (Life), 1775) Amphipyra tragopogonis (Clerck, 1759) Amphipyra tetra (Fabricius, 1787) Hellothinae		a, a,	S, w	8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8			x, x			
Helicoverpa armigera (Hübner, [1808]) Stirrilnae		L,s		L,s			L,s	L,s	L,s;S,s	
Mycteroplus puniceago (Boisduval, 1840)									R,a	20

	51		52		53		10			55										99	22									
>					L,s;S,s									R,r;L,s;S,s	S,s			L,r		S,s,L,s										
,	L,s				L,r									L,r				Ľ,r		L,s										
-	L,c				L,c									L,c;S,r	L,s		L,s	L,s							L,r	L,c		Ľ,r	L,s	L,s
,					L,r	Į,					S,r			L,s											Ľ,r			L,r		
,	ŗ	S	<u> </u>		L,c	L,s							L,r	L,r			L,s				L,s		L,s					Ļ		
+		S	<u> </u>		L,c	L,s					S,r		L,s	L,c;S,r			L,r								L,s	Ľ,r		L,c	L,r	
0					Γ ,,s																	S,r								
1		L's	i Î		L,r	L,s					S,S				L,s							L,s;S,s			L,s					
7	L.c.S.r	, v	Î		Γ , Γ	L,s	L,s	S,S			L,s		L,c;S,r	L,r						L,r										
	Ipimorphinae Praestilbia armeniaca Staudinger, 1892	Platyperigea kadenii (Freyer, 1836) Porodrina flaviena (Guenée 1852)	Paradrina clavipalpis (Scopoli, 1763)	Hoplodrina ambigua	(Denis & Schiffermuller], 1775)	Spodoptera exigua (Hübner, [1808])	Sesamia nonagrioides (Lefebvre, 1827)	Dypterygia scabriuscula (Linnaeus, 1758)	Anthracia eriopoda	(Herrich-Schäffer, [1851])	Mormo maura (Linnaeus, 1758)	Polyphaenis subsericata	(Herrich-Schäffer, [1861])	Thalpophila matura (Hufnagel, 1766)	Phlogophora meticulosa (Linnaeus, 1758)	Mesogona acetosellae	([Denis & Schiffermüller], 1775)	Atethmia centrago (Haworth, 1809)	Atethmia ambusta	([Denis & Schiffermüller], 1775)	Agrochola ostheldei Boursin, 1951	Agrochola gratiosa (Staudinger, 1882)	Episema glaucina (Esper, 1789)	Episema tersa	([Denis & Schiffermüller], 1775)	Episema lederi Christoph, 1885	= sareptana Alpheraky, 1897	Episema korsakovi (Christoph, 1885)	Aporophila canescens (Duponchel, 1826)	Meganephria bimaculosa (Linnaeus, 1767)

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10	59	60		62
6	L,r	s, s,	L,s;S,s R,s;L,s;S,s L,s R,s;L,s;S,s L,s;S,s S,s S,s	L,s
8	L,r L,c	L,s	L,s L,s	
7	L,s L,c	L,r S,s L,r	, i,	L,s
9	L,r L,s	L,s	L,s L,s	L,s;S,s
5	L,s L,r L,r		L,s L,s L,s	L,s;S,s L,r
7	L,s L,c	L,s	L,r;S,s L,r;S,s L,s L,s	L,s L,s
3		S,s L,s;S,r		L,s
2		L,s	L,r	
1	L, r	L,s;S,r	L,r L,s L,s S,s;L,r	Ļ
52		Hadeninae Discestra trifolii (Hufnagel, 1766) Lacanobia oleracea (Linnaeus, 1758) Leucania herrichi Herrich-Schäffer, 1849 Leucania putrescens (Hübner, [1824]) Leucania punctosa (Treitschke, 1828) Mythimna ferrago (Fabricius, 1787)	((Denis & Schiffermüller), 1775) Mythimna vitellina (Hübner, [1808]) Mythimna congrua (Hübner, [1817]) Mythimna l-album (Linnaeus, 1767) Mythimna scirpi (Duponchel, 1836) Acantholeucania loreyi (Duponchel, 1827) Tholera decimalis (Poda, 1761) Noctuinae Ochropleura flammatra ((Denis & Schiffermüller), 1775) Noctua pronuba Linnaeus, 1758 Latanoctua orbona (Hufnagel, 1766)	Paranoctua commes (Hübner, [1813]) Paranoctua interposita (Hübner, [1870]) Lampra fimbriata (Schreber, 1759)

10	1-9	65		99		67	89								69
6					Ľ,s	L,s;S,s	S,r	Î	L,r L,s		L,r	•	L,r;S,s L,s;S,s		χ, n
8		Ľ,r				L,c				L,s L,s					L,a
7		L,s				L,s;S,s	L,c					,	Ľ,r	L,s	S,s
9							, , ,	ì				L,s	S,s		
5			L,r	L,r		L,r	L,a			L,s				L,s	
7			L,s			L,s						L,r		L,s;S,s	
3		s,s		S,a		S,s;L,s				L's		L,s;S,s	L,s		
2	L,s			L,s L,r;S,c		S,c;L,c	L,c		L,s;S,s			L,r;S,r		L,r;S,r	S, S
1	L,s	L,s;S,s			L,s	L,s;S,r				~	(5)	S,r;L,r	L,r;S,r L,s	L,c;S,r	S,r
	Lampra tirrenica (Biebinger, Speidel & Hanigk, 1983)	(von Mentzer, Moberg & Fibiger, 1991) Internoctua interjecta (Hübner, [1803]) Divaena haywardi (Tams, 1926)	Epileeta linogrisea ([Denis & Schiffermüller], 1775) Chersotis rectanaula	([Denis & Schiffermüller], 1775) Eugnorisma pontica (Staudinger, 1892)	Xestia c-nigrum (Linnaeus, 1758) Xestia xanthoarapha	([Denis & Schiffermüller], 1775)	Aestia conaesa (Herrich-Schaffer, [1849]) Peridroma saucia (Hübner, [1808]) Eusea eee (Hübner 1894)	Euxoa distinguenda distincta	Staudinger, 1892 Euwoa temera (Hübner, [1808])	Euxoa segnilis (Duponchel, 1836) Euxoa obelisca ([Denis & Schiffermüller], 1775)	Agrotis obesa scita Alphéraky, 1889 = A. obesa niwa Caradia, 1932 (L.T.: Balcic)	Agrotis crassa (Hübner, [1803])	Agrotis puta (Hubner, [1803]) Agrotis ipsilon (Hufnagel, 1766)	Agrotis trux (Hübner, [1824])	Agrotis segetami ([Denis & Schiffermüller], 1775) Agrotis vestigialis (Hufnagel, 1766)

Notes

- 1. L.T.: Balcic (= Balchik), 08. and 20. November, 1931 and Carmen Silva (Romania) CARADJA (1932: 41) Hepialus dobrogensis ssp. (?) nov. and p. 45: Hepialus amasinus ssp. dobrogensis. In some articles GANEV (1984: 416) and some others the year of the description of the species is wrongly given as 1934 (Dt. Ent. Z. Iris, Bd. 48: 185-191). Genitalia of many specimens from Balchik and East Rhodopi Mts checked.
- 2. In Popescu-Gorj (1964) in the text (p. 19) this species is given as Korscheltellus amasinus dobrogensis Car., but in the illustration (Fig. 1.) as Korscheltellus amasinus ponticus Car. We consider Korscheltellus amasinus ponticus sensu Popescu-Gorj (1964) as a syn. n., nomen nudum of Triodia amasinus dobrogensis (Caradja, 1932).
 - 3. The genitalia of all Triodia specimens in bad condition were checked.
 - 4. More than 20 ♂ specimens at light, det. P. Hattenschwiler (Uster, CH).
 - 5. One o, genitalia checked.
 - 6. Genitalia checked.
 - 7. Genitalia checked.
 - 8. Rozhenski Manastir, 15.IX.1995, one inside building.
 - 9. Genitalia checked.
 - 10. Genitalia checked.
 - 11. Genitalia checked from all localities.
 - 12. Sofia Town, "Mladost IV" H.E., 12.IX.1995.
 - 13. Sofia Town, "Mladost IV" H.E., 12.IX.1995.
 - 14. Several specimens observed on a ceiling in a market in Melnik Town.
 - 15. Genitalia of all specimens checked.
 - 16 Genitalia checked.
 - 17. East Rhodopi Mts, Haskovo Town, 18.IX.1995, single specimen.
- 18. Single specimen observed near Novo Delchevo Village in SW Bulgaria, Melnik District, 14.IX.1995.
- 19. Wings of specimens eaten by bats in the tunnel under Stara Kresna Railway Station; 11 specimens observed aestivating in the tunnel in the museum "Kordopulovata Kashta" House in Melnik Town, 15.IX.1995.
- 20. Wings of specimens eaten by bats in the tunnel under Stara Kresna Railway Station.
- 21. Central Bulgaria, Stara Zagora Town, 22.IX.1995, several specimens observed.
 - 22. Genitalia checked.
 - 23. Genitalia checked.
 - 24. Genitalia checked by both authors.
 - 25. One \bigcirc and one \bigcirc (undetermined), Gen. preps 21-22./30.I.1996, Beshkov.
 - 26. Rozhenski Manastir, 15.IX.1995, three specimens inside building.

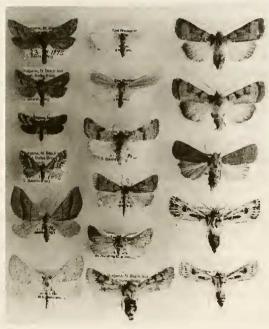


Fig. 1 - 17.

First column: 1. Triodia amasinus dobrogensis, \mathbb{Q} - Balchik, 23.IX.1995. 2. Triodia amasinus dobrogensis, \mathbb{O} - Balchik, 23.IX.1995. 3. Eochorica balcanica, \mathbb{O} - Melnik, 14.IX.1995. 4. Eupithecia variostrigata, \mathbb{Q} - Balchik, 23.IX.1995. 5. Aplocera dervenaria, \mathbb{Q} - Melnik, 14.IX.1995. 6. Dyscia sicanaria, \mathbb{O} - Byalo Pole, 21.IX.1995.

Second column: 7. Eilema pseudocomplana, Q - Byalo Pole, 21.IX.1995. 8. Eilema caniola, O - Byalo Pole, 21.IX.1995. 9. Mycteroplus puniceago, O - Balchik, 23.IX.1995. 10. Praestilbia armeniaca, O - Byalo Pole, 21.IX.1995. 11. Episema lederi, O - Byalo Pole, 21.IX.1995. 12. Luperina rubella sericea, Q - Balchik, 23.IX.1995.

Third column: 13. Eugnorisma pontica, ♂-Melnik, 14.IX.1995. 14. Eugnorisma pontica, ♂-Melnik, 14.IX.1995. 15.

Xestia cohaesa, ♀ - Momina Skala Chalet near Madzharovo, 19.IX.1995. 16. Agrotis obesa scytha, \circlearrowleft - Balchik, 23.IX.1995. 17. Agrotis vestigialis, \circlearrowleft - Arkutino, 22.IX.1995.

- 27. One ♀, genitalia checked.
- 28. Collected also in Sofia Town, "Mladost IV" H.E., 12.IX.1995. Genitalia of all specimens checked.
 - 29. One ♂ specimen, genitalia checked.
 - 30, Genitalia checked.
- 31. SW Bulgaria, Gradeshnitsa Village, Kresna District, 14.IX.1995, one on window of inn.
 - 32. Genitalia not checked.
 - 33. Genitalia not checked.
- 34. East Rhodopi Mts, Borislavtsi Village, 20.IX.1995, single specimen resting on a wall.
- 35. SW Bulgaria, Gradeshnitsa Village, Kresna District, 14.IX.1995, one on window of inn.
- 36. Ivailovgrad Dam, 20.IX.1995, three specimens resting on a wall by police checkpoint.
- 37. East Rhodopi Mts, Borislavtsi Village, 20.IX.1995, single specimen resting on a wall.
 - 38. East Rhodopi Mts, Madzharovo Town, 19.IX.1995, one resting on a post.
 - 39. Genitalia of many specimens checked.
 - 40. Genitalia of many specimens checked.

- 41. Approximately 10 specimens aestivating in the tunnel under Stara Kresna Railway Station; four specimens observed aestivating in the tunnel in the museum "Kordopulovata Kashta" House in Melnik Town, 14.IX.1995.
- 42. Three specimens collected aestivating in the tunnel in the museum "Kordopulovata Kashta" House in Melnik Town, 14.IX.1995.
 - 43. For the nomenclature see MIKKOLA & HONEY (1993).
 - 44. For the nomenclature see MIKKOLA & HONEY (1993).
 - 45. Both specimens worn.
 - 46. Sofia Town, "Mladost IV" H.E., 12.IX.1995.
 - 47. One ♂ specimen, Genitalia checked.
 - 48. For the nomenclature see MIKKOLA & HONEY (1993).
 - 49. Genitalia checked.
- 50. 29 specimens collected at rest inside buildings to which they had been attracted by previous nights' illumination. The day before the collecting the temperature had decreased by about 15° C.
 - 51. Rozhenski Manastir, 15,IX.1995, several males inside building.
 - 52. Sofia Town, "Mladost IV" H.E., 12.IX.1995.
 - 53. Sofia Town, "Mladost IV" H.E., 12.IX.1995.
 - 54. Rozhenski Manastir, 15.IX.1995, one inside building.
 - 55. One worn specimen at sugar.
- 56. East Rhodopi Mts, Borislavtsi Village, 20.IX.1995, single specimen resting on a wall.
- 57. In Bulgaria known from Kresna Gorge (GANEV & HACKER, 1984; BESHKOW, 1992), East Rhodopi Mts: Studen Kladenetz Village and Momina Skala Chalet near Madzharovo Town (BESHKOV, 1995).
 - 58. Genitalia of all *Mesapamea* specimens checked.
- 59. L.T.: Balcic (Balchik), 06.November, 30. December 1930 CARADJA (1932) Palluperina (Luperina) rubella ssp. nov. sericea.
- 60. Two \bigcirc specimens in a bad condition were collected. Till now known in Bulgaria only from East Rhodopi Mts, Momina Skala Chalet near Madzharovo (BESHKOV, 1995).
 - 61. Single male specimen (Fig. 18) at sugar, a new species for the Bulgarian fauna.
 - 62. One worn specimen, genitalia checked.



Fig. 18. Leucania punctosa, \bigcirc - Byalo Pole, 21.IX.1995.

- 63. Genitalia checked.
- 64. Genitalia checked.
- 65. Sofia Town, "Mladost IV" H.E., 12.IX.1995.
 - 66. All specimens worn.
 - 67. Genitalia of many specimens checked.
 - 68. Genitalia checked.
- 69. Sofia Town, "Mladost IV" H.E., 12.IX.1995.

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Macrolepidoptera u Microlepidoptera (Alucitidae u Pyralidae), установени в България в периода 12 - 24 септември 1995 (Lepidoptera)

Стоян БЕШКОВ, Бари ГОТЪР

(Резюме)

Представени са резултатите от колекционната експедиция на авторите през споменатия период в Югозападна България, Източните Родопи, Черноморското крайбрежие и някои други части на страната. Във всичките споменати в работата находища нощните пеперуди са ловени на светлинна ловилка и на хранителна примамка от червено вино и захар. За всеки от съобщените видове е указан начинът и времето на улавянето му и приблизителният период на наблюдаваните екземпляри. В списъка са включени всичките 262 вида, установени през периода. Leucania punctosa (Treitschke, 1828) е нов вид за пеперудната фауна в България. Голяма част от видовете са нови за изследваните райони, друга част са с ограничен брой находища в страната. Приложени са снимки на новия и на останалите по-интересни видове и някои допълнителни пояснения.